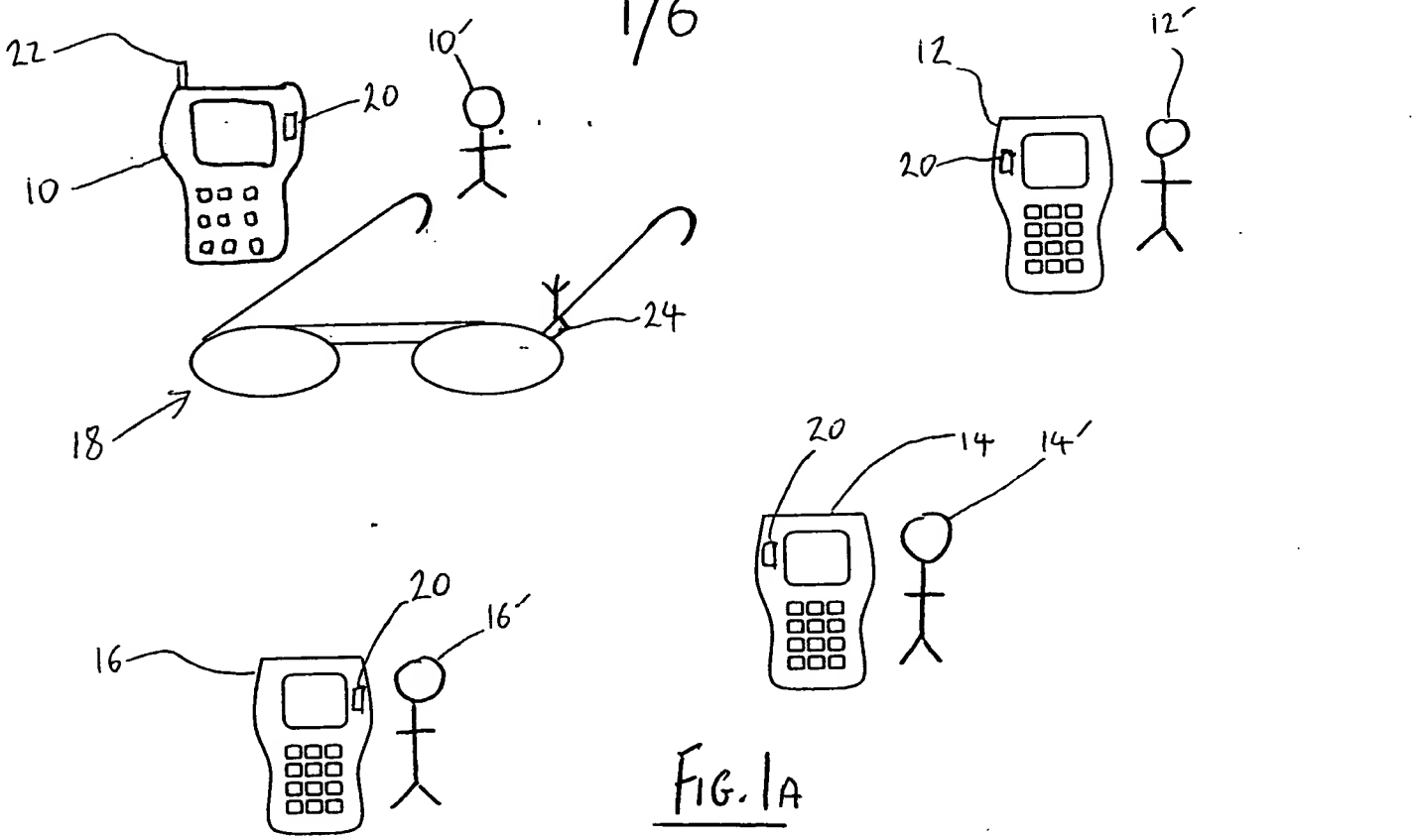

FIG. 1A

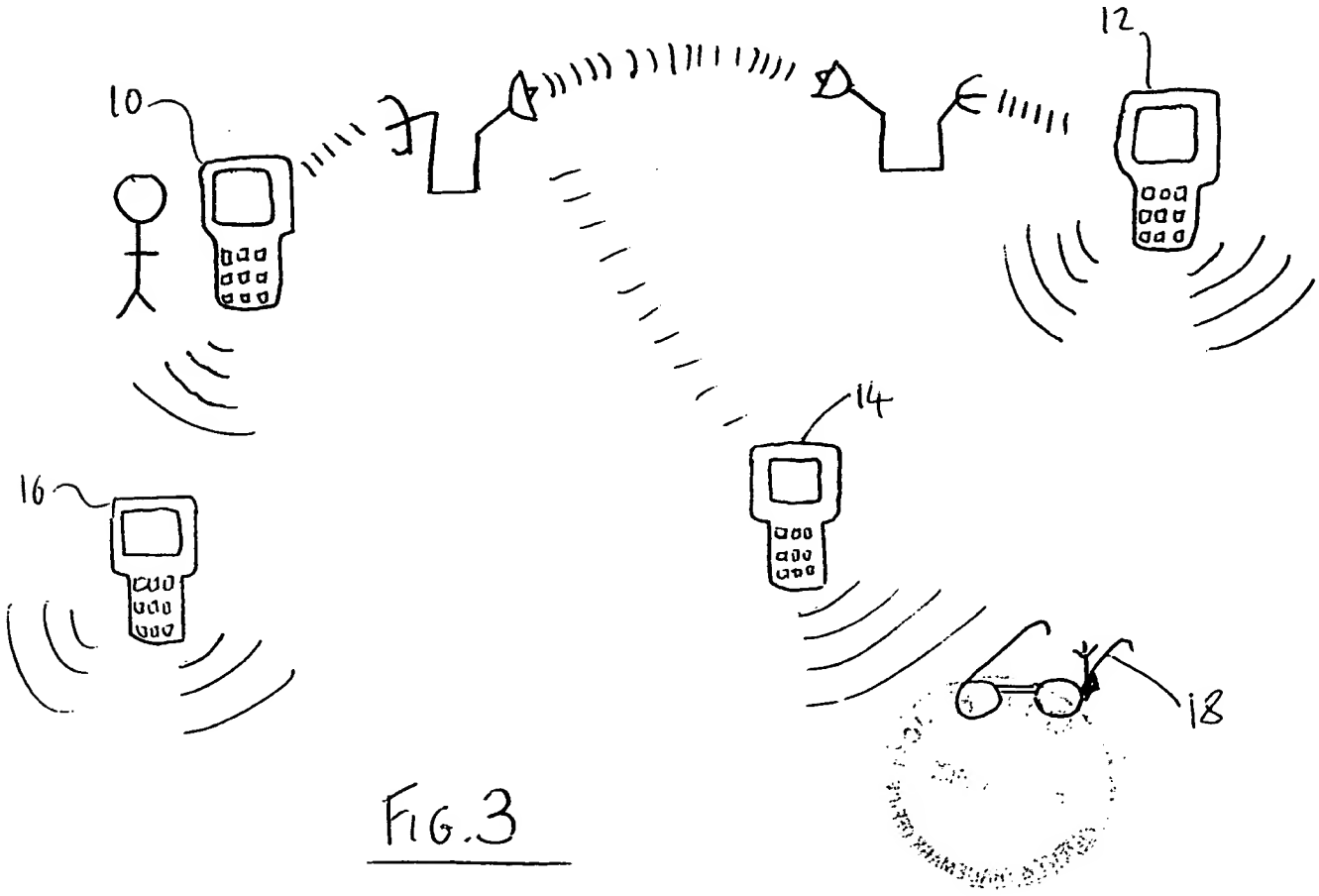

FIG. 3

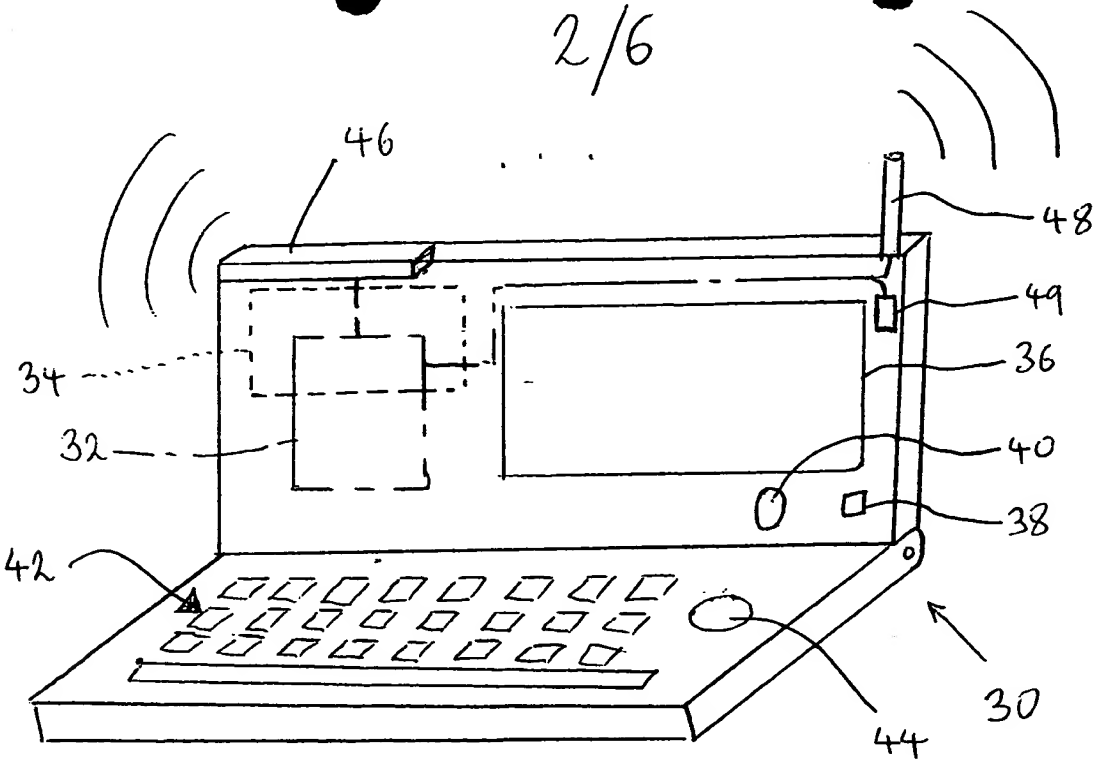

FIG. 2

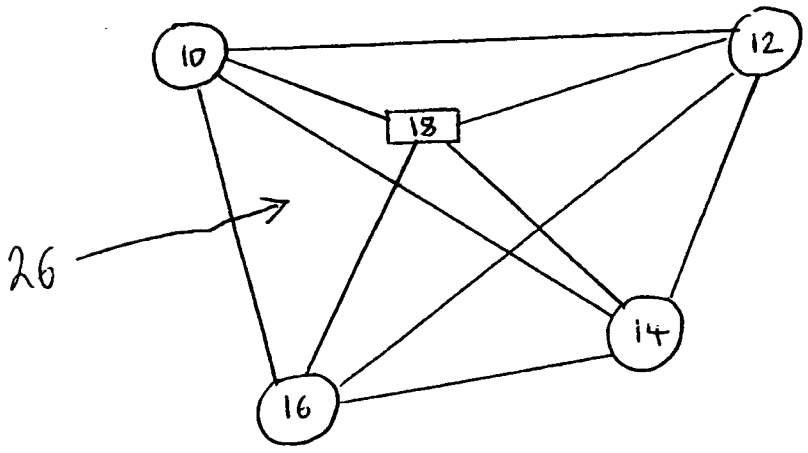

FIG 1B

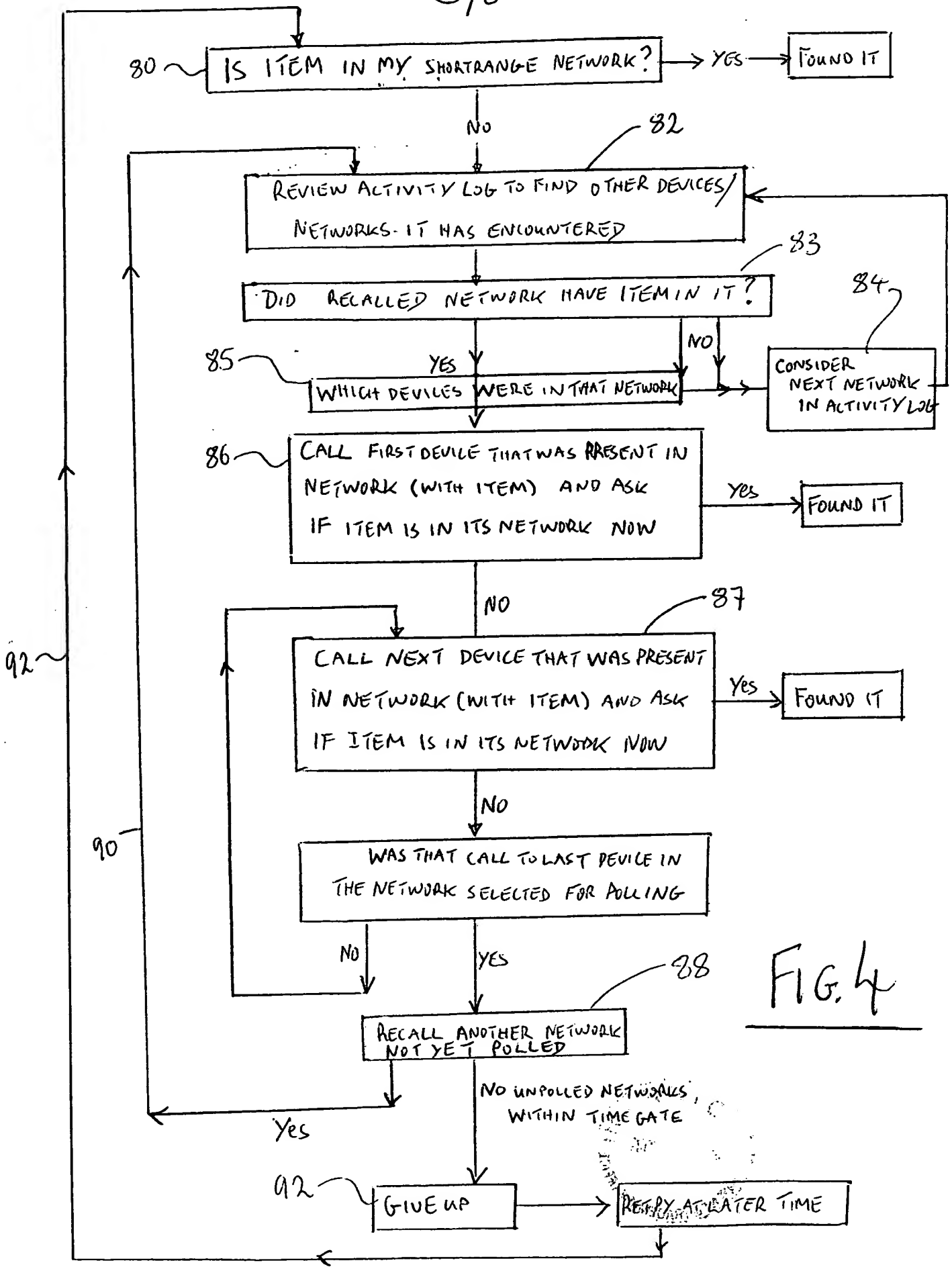
80
IS ITEM IN MY SHORTRANGE NETWORK?
YES
FOUND IT
NO
82
REVIEW ACTIVITY LOG TO FIND OTHER DEVICES/ NETWORKS IT HAS ENCOUNTERED
83
DID RECALLED NETWORK HAVE ITEM IN IT?
84
NO
85
YES
WHICH DEVICES WERE IN THAT NETWORK
CONSIDER NEXT NETWORK IN ACTIVITY LOG
86
CALL FIRST DEVICE THAT WAS PRESENT IN NETWORK (WITH ITEM) AND ASK IF ITEM IS IN ITS NETWORK NOW
YES
FOUND IT
NO
87
92
CALL NEXT DEVICE THAT WAS PRESENT IN NETWORK (WITH ITEM) AND ASK IF ITEM IS IN ITS NETWORK NOW
YES
FOUND IT
NO
90
WAS THAT CALL TO LAST DEVICE IN THE NETWORK SELECTED FOR POLLING
NO
YES
88
RECALL ANOTHER NETWORK NOT YET POLLED
NO UNPOLLED NETWORKS WITHIN TIME GATE
YES
92
GIVE UP
RETRY AT LATER TIME

FIG. 4

40

	TIME	DEVICES IN NETWORK	LOCATION
50 →	9.00 .21.05.01	XP260; XP261; H630; Q4362; A900; G1; PC100	6752.3241
52 →	9.10 .21.05.01	XP260; XP261; H630; Q4362; A900; H777; G1; PC100	6752.3241
54 →	9.50 .21.05.01	XP260; XP261; S428; G1; PC100	6752.3241
56 →	11.30. 21.05.01	XP260; XP261; G1; PC100	6752.3241
58 →	11.40 21.05.01	XP260; XP261; C-1000; G1	6752 3242
60 →	11.50 21.05.01	XP260; XP261; C-1000; G1	6780.3290
62 →	12.00 21.05.01	XP260; XP261; Q500; G1	6781.3291
64 →	18.10 21.05.01	XP260; G1	6781.3291
66 →	18.40 21.05.01	XP260; C-1000	6801.3315
68 →	18.50 21.05.01	XP260	6801.3350
70 →	22.30 21.05.01	XP260	6801.3350

FIG.5

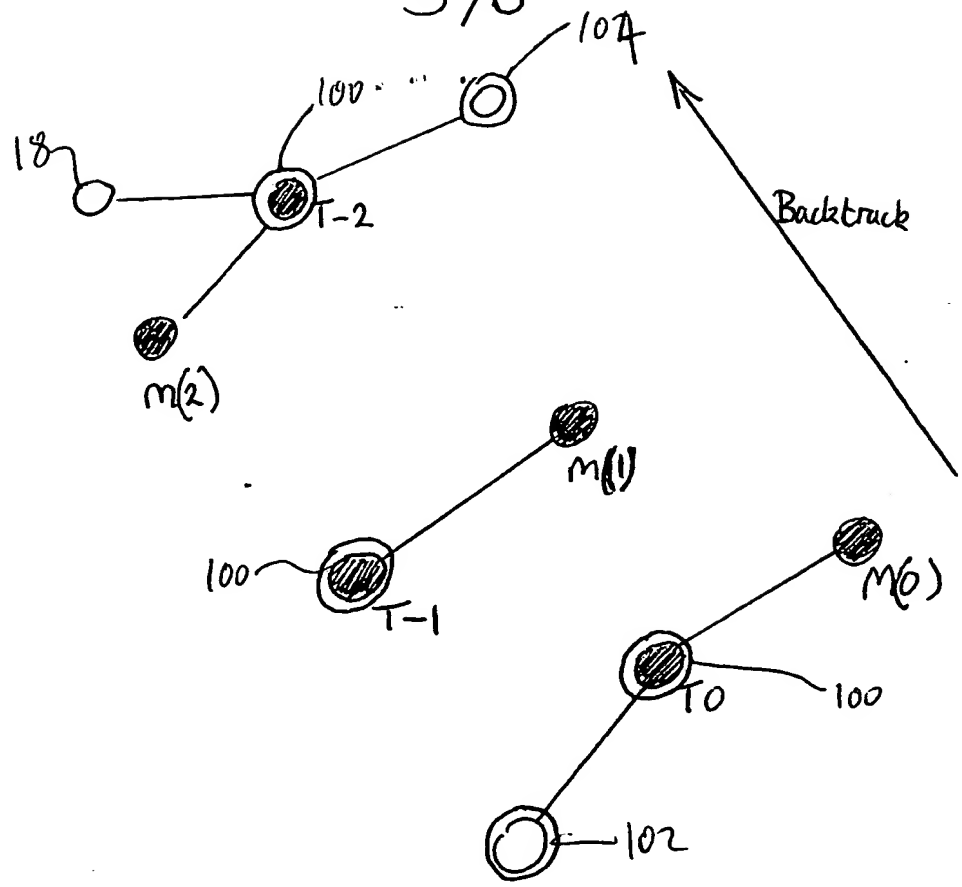
107
100
18
T-2
Backtrack
m(2)
m(1)
100
T-1
m(0)
T0
100
102

FIG. 6

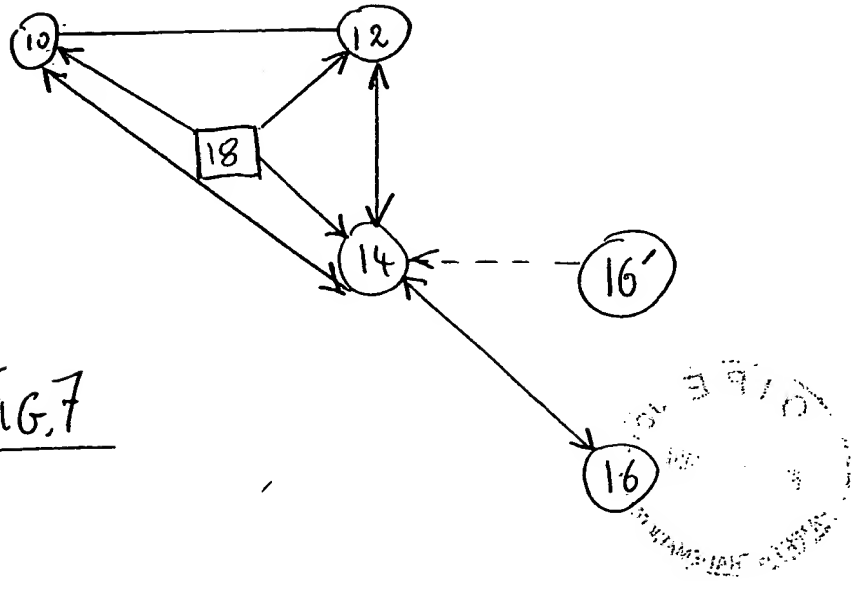
10
12
18
14
16'
16

FIG. 7

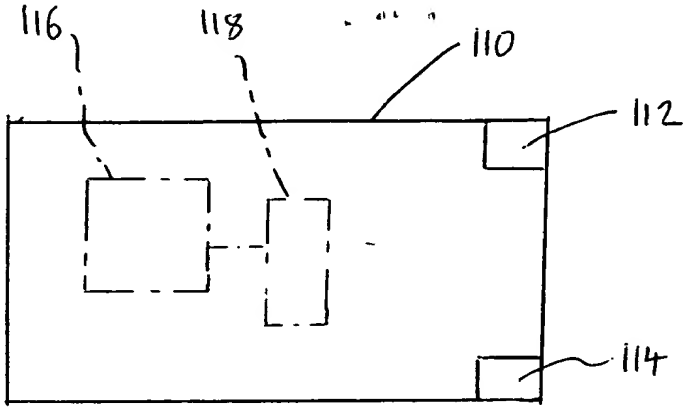

FIG. 8

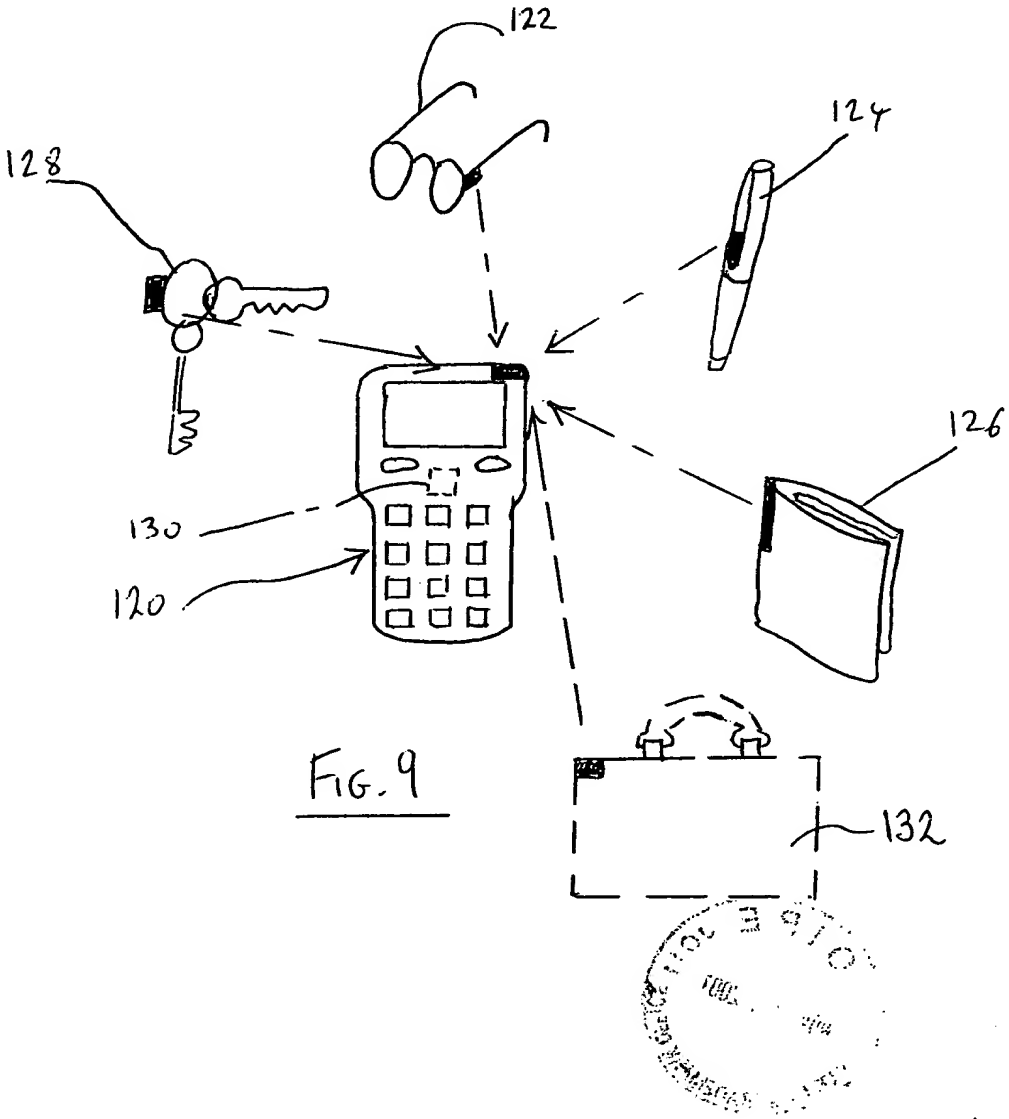

FIG. 9